## The Investment Environment

Chapter 1

## Real & Financial Assets

- Real assets = assets used to produce goods and services (productive capacity)
  - physical assets (land, buildings, machinery etc.)
  - "human assets" (labor, human capital)
- Financial Assets = claims on real assets
  - stocks and bonds
  - contribute indirectly to productive capacity by allowing the transfer of funds to most profitable opportunities
  - define the allocation of income among investors

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## Real & Financial Assets

- Distinguish between real and financial assets:
  - in balance sheet: real assets are *only* on asset side, while financial assets can be on both sides
  - Summing up balance sheets:
    - financial assets cancel out
    - real assets sum up to the net wealth of the economy
  - financial assets are destroyed during normal operation of business, while real assets only by accident or depreciation

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#### Role of Financial Assets and Markets

- 1. Consumption timing
  - financial assets allow the transfer of purchasing power from one period to another (shift consumption)
- 2. Allocation of risk
  - investors can find the assets with the desired level of risk and return
- 3. Separation of ownership
  - large companies need large investment, hence many investors, but one or few managers

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## Separation of Ownership – Problems

Separation of ownership causes *principal-agent* (or *agency*) problems – agents (managers) don't always have the best interest of principals (shareholders) in mind

#### Solutions:

- compensation plans (e.g., stock options)
- board of directors
- outsider monitoring (e.g., large investors, security analysts)
- takeover threat (proxy contest)
- proposed stock-based compensation

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## Crisis in Corporate Governance

- Accounting Scandals changes to financial data so as to hide the actual condition of the firm (e.g., Enron, Global Crossing)
- Analyst Scandals = misleading or overly optimistic reports by financial analysts (e.g., Merrill Lynch)
- Allocation of Initial Public Offerings (IPOs) to corporate executives to repay for personal favors (e.g., CSFB)

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# Financial System Clients and Their Needs Household Sector primary need: invest funds

- different incentives due to taxes, risk tolerance
   Business Sector
  - primary need: raise funds
  - want to get the best price for securities with the lowest issue cost possible → middlemen
- Government Sector
  - primary need: raise funds
  - can only sell bonds, but also regulates financial market

## Meeting the Needs of Participants

- Financial Intermediation = channeling funds from investors (savings) to the business sector
  - Examples: banks, insurance companies, credit unions, investment companies (mutual funds)

#### Advantages:

- economies of scale (large sums to be invested)
- diversification
- specialization → lower transaction costs
- Investment Banking = firms that specialize in advising on and issuing securities (IPOs)
  - An important asset is *credibility*

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## Meeting the Needs of Participants

- Financial Innovation & Derivatives
  - due to the need for investment diversity
  - examples: securitization of mortgages
  - primitive securities offer returns based on the status of the issuer
  - derivative securities offer returns based on additional factors related to the price of other assets (used in general for risk management)
- Responding to Regulation & Taxes
   Examples: Eurodollar market, zero-coupon bonds

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### Markets and Market Structure

#### Four types of markets:

- direct search market buyers and sellers look for each other directly (non-standard goods, sporadic participation)
- brokered market if goods are sufficiently active (e.g., primary market, market for large block transactions)
- dealer market dealers trade in their own interest, making profit from the bid-ask spread (e.g., the over-the-counter stock market)
- auction market all economic agents converge to one place (e.g., NYSE)

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## **Investments and Innovation**

#### Ongoing trends:

- Globalization
- Securitization
- Financial engineering
- IT and communications revolution

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## **Key Trends - Globalization**

## Foreign investment opportunities:

- purchase foreign securities using American Deposit Receipts (ADRs – domestically traded claims to foreign stocks) or WEBS (World Equity Benchmark Shares – claims on portfolios of foreign stocks)
- purchase foreign securities in USD
- buy mutual funds that invest overseas
- buy derivatives that depend on prices in foreign security markets

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## **Key Trends - Securitization**

- pools of loans are aggregated into pass-through securities
- enables issuers to bypass intermediaries, because of the large volume
- examples: mortgages, collateralized automobile receivables (CARs), credit card debt etc.
- also allowed the "cleansing" of bank balance sheets of loans to developing nations (Brady bonds – partially collateralized with US Treasury bonds)

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## Key Trends - Financial Engineering

- design and creation of securities with customtailored characteristics, in general with regard to exposure to certain types of risk
- deal with bundling or unbundling cash-flows to suit the requirements of traders
- usually involves primitive and derivative securities:
  - common stock combined with options
  - mortgage pass-through certificate split into 2 classes: only principal payment and only interest payment

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## Key Trends – Computer Networks

- helped introduce some innovations: online trading, online information dissemination etc.
- lowered transaction costs
- allow the bypass of intermediaries like investment bankers (e.g., Spring Street Brewing Company) or the creation of online investment bankers